UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspio.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,587	08/22/2003	Robert R. Moore	MOOR3002.2/TJM	8226
23364 BACON & TH	7590 05/22/200 OMAS, PLLC	EXAMINER		
625 SLATERS	LANE	MAYEKAR, KISHOR		
FOURTH FLOOR ALEXANDRIA, VA 22314-1176			ART UNIT	PAPER NUMBER
	,		1795	
			MAIL DATE	DELIVERY MODE
			05/22/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Annliestion No	Applicant(s)	
Office Action Summary		Application No.		
		10/645,587	MOORE, ROBERT R.	
	Office Action Summary	Examiner	Art Unit	
	The MAN INC DATE of this communication ann	Kishor Mayekar	1795	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION STATE OF THIS COMMUNICATION STATE OF THIS COMMUNICATION STATE OF THIS CAUSE THE APPLICATION OF THIS CAUSE THE APPLICATION TO SENDENCE OF THIS CAUSE THE APPLICATION TO SENDENCE OF THIS CAUSE THE APPLICATION TO SENDENCE OF THIS CAUSE THE APPLICATION OF THIS CAUSE THE APPLICATION OF THIS CAUSE OF THI	DN. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).	
Status				
2a) <u></u>	Responsive to communication(s) filed on <u>05 Fe</u> This action is FINAL . 2b) This Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. nce except for formal matters, pr		
Disposit	ion of Claims			
5)□ 6)⊠ 7)□	Claim(s) <u>5 and 21-35</u> is/are pending in the apple 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>5 and 21-35</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.		
Applicat	ion Papers			
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examiner	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).	
Priority (under 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applica ity documents have been receiv ı (PCT Rule 17.2(a)).	tion No ved in this National Stage	
2) Notice 3) Information	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date	

DETAILED ACTION

Response to Amendment

1. Applicant's election and amendments filed 5 February 2009 have been entered.

Claims 1-4 and 6-19 have been cancelled and new misnumbered claims 20-34 have been added. Claims 5 and misnumbered 20-34 are currently pending in this application.

Election/Restrictions

2. Applicant's election of invention of Group I, claims 5 and 20-34 and species of the liquid as dielectric liquid and species of the contacting to be simultaneously in the reply filed on 5 February 2009 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Further, since misnumbered claims 23 and 25 are not read on the elected species, they are withdrawn from further consideration as being drawn to non-elected species.

Claim Objections

3. The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are

presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

Misnumbered claims 20-34 have been renumbered as claims 21-35, respectively.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 5 and renumbered dependent claims 22, 23, 25 and 27-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 5, the recitations "the annular region" and "the plasma" lacks antecedent basis. The recitation "whereby" is indefinite in a method claim since the action follows the term does not necessarily occur. The recitation "secondary processes" is confusing or lacks antecedent basis as to what secondary processes are being claimed. The recitation "results" is confusing or lacks antecedent basis as what results are being claimed. The same is applied to the recitation "multiple processes".

Renumbered dependent claims 22, 23, 25 and 27-35 are rejected being depended upon indefinite claim 5.

Application/Control Number: 10/645,587 Page 4

Art Unit: 1795

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in

public use or on sale in this country, more than one year prior to the date of application for patent in

the United States.

7. Claims 5 and renumbered claims 21-35 are rejected under 35 U.S.C. 102(b) as being

anticipated by Suzuki et al. (US 5,084,078). Suzuki's invention is directed to an exhaust

gas purifier unit. Suzuki discloses

the application of a high voltage between first and second electrodes to generate

bridged stream coronas (a plasma) within an annular space defined by the first and second

electrodes, where the second electrode is in cylindrical form and covered with a dielectric

material and the first electrode is at the center of the second electrode (c. 3, 1. 65

through c. 4, 1, 20);

means for feeding oil into the annular space onto the dielectric so that the oil is

diffused and attracted to the dielectric to form an oil film thereon to remove fine

particles and harmful gases from the exhaust gas passing through the bridged stream

coronas (paragraph crossing c. 1 and 2);

the recirculation of the oil into the annular space, where the oil contains built-up precursor or oil oxide in neutralized form or in particle status (c. 4, l. 40-68).

As such, Suzuki discloses all the steps as claimed.

As to the subject matter of claim 22, since Suzuki discloses the removal of fine particulate from the exhaust gas and the oil containing built-up precursor or oil oxide in particle status, Suzuki's teachings have the limitation.

As to the subject matter of each of claims 28-35, Suzuki discloses or inherently discloses it in c. 3, l. 32-54 or in c. 4, l. 60-68.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-1339. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information

Application/Control Number: 10/645,587 Page 6

Art Unit: 1795

about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kishor Mayekar/ Primary Examiner, Art Unit 1795